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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,698	01/02/2002	Osamu Wada	111618	1789

7590 11/17/2003
Oliff & Berridge
PO Box 19928
Alexandria, VA 22320

EXAMINER

NELSON, ALECIA DIANE

ART UNIT PAPER NUMBER

2675

DATE MAILED: 11/17/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/019,698

Applicant(s)

WADA, OSAMU

Examiner

Alecia D. Nelson

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 02 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5. 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Margulis (U.S. Patent No. 6,456,340) in view of Hidaka et al. (U.S. Patent No. 6,118,455).

With reference to the **claims 1, 2, 10, 11 and 17** Margulis teaches an image display system which corrects a color of an image and displays the image based on input information pertaining to the image (see column 5, lines 13-30) comprising; colored-light information processing means (DIP, 210) which converts a given color into a digital coordinate value within a given image and obtains a coordinate value forming a complementary color pair with the converted coordinate value based on a coordinate value within a given image (see column 8, lines 9-20); and a correction means (DOP, 230) which corrects input-output characteristic data for display that is used by means of displaying the image based on the obtained coordinate value forming the complementary color pair (see column 12, line 60-column 13, line 16).

Margulis fails to specifically teach that the input information is based on the visual environment information generated by visual environment detection means, however it is disclosed that the image processing uses the input data, along with the known

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characteristics of the particular display system, which could be the environment to which the system is located.

Hidaka et al. teaches a means for obtaining the ambient light information, it is possible to detect the ambient light of the environment in which the image is at present observed by a sensor or to previously measure the ambient light by the user by using an illumination photometer, a luminance meter, or the like and to input the measured value to the signal conversion device 16. It is also possible to use a method whereby several selection items have already been made and a proper value that is closest to the present environment is selected among them (see column 13, lines 32-41).

Therefore it would have been obvious to one having ordinary skill in the art for a device which monitors the ambient light of the environment as taught by Hadaka et al. in a device similar to that which is taught by Margulis in order to improve the output characteristics of the device to be displayed to the user.

With reference to **claims 2, 7, and 12** Margulis teaches that colored light information processing means obtains an inverse vector of a bound vector that indicates a coordinate position of the converted coordinate value within the image as the coordinate value forming the complementary color pair, and wherein the correction means corrects the input-output characteristic data, using the obtained inverse vector as a correction value (see column 7, lines 28-50)

With reference to **claims 3, 4, 13, and 18** Margulis teaches of a an image processing module including geometric transformation (404) and color/spatial gamma correction (410) as well as a plurality of other circuits for improving the image (see column 12, lines 45-58).

With reference to **claims 8 and 19**, Margulis teaches that the usage of a projection screen as the display means (see column 5, lines 23-31).

With reference to **claims 9 and 5**, Margulis teaches fails to specifically teach that the visual environment detection means takes into account a type of screen. However does teach that images are projected to a display screen.

Hidaka et al. teaches a means for obtaining the ambient light information, it is possible to detect the ambient light of the environment in which the image is at present observed by a sensor or to previously measure the ambient light by the user by using an illumination photometer, a luminance meter, or the like and to input the measured value to the signal conversion device 16. It is also possible to use a method whereby several selection items have already been made and a proper value that is closest to the present environment is selected among them (see column 13, lines 32-41).

Therefore it would have been obvious to one having ordinary skill in the art for a device which monitors the ambient light of the environment as taught by Hadaka et al.

in a device similar to that which is taught by Margulis in order to improve the output characteristics of the device to be displayed to the user.

With reference to **claims 14-16, 20, and 21**, Margulis teaches that colored light information processing means obtains an inverse vector of a bound vector that indicates a coordinate position of the converted coordinate value within the image as the coordinate value forming the complementary color pair, and wherein the correction means corrects the input-output characteristic data, using the obtained inverse vector as a correction value (see column 7, lines 28-50)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alecia D. Nelson whose telephone number is (703)305-0143. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Saras can be reached on (703)305-9720. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

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October 1, 2003



STEVEN SARAS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600